

1 **CLAIMS**

2 1. A process for moving a trailer having a front and a rear and a center of
3 gravity between the front and the rear with a truck having a trailer mount
4 comprising the steps of:

5 (1) attaching the trailer front to the truck trailer mount;

6 (2) moving the trailer into position with the truck;

7 (3) activating a hydraulic power source independent of the trailer;

8 (4) lifting the front of the trailer from the truck trailer mount using two
9 balanced hydraulic pistons on either side of the trailer and forward of the
10 center of gravity of the trailer powered by the hydraulic power source;

11 (5) moving the truck out of position;

12 (6) leveling the trailer at a desired height using the two opposing
13 pistons.

14 2. The method of claim 1 further comprising the step of moving the trailer
15 using a skidder means for moving a trailer in a restricted space between the
16 steps of moving and leveling.

17 3. The method of claim 1 further comprising the steps of moving the trailer to
18 where it may be met with a truck; lifting the trailer with the pistons above the
19 level of the trailer mount; moving the truck trailer mount in place under the
20 front of the trailer and lowering the trailer onto the truck trailer mount using the
21 pistons.

1 4. The process of claim 1 wherein the trailer has a top and a bottom and
2 wherein the hydraulic power source is further defined as being attached to
3 the top of the rear of the trailer.

4 5. The process of claim 4 wherein the hydraulic power source is a tree
5 handling device with a hydraulic motor.

6 6. A trailer having a front end and a rear end having a center of gravity
7 between the front and the rear supported on the ground by at least
8 two wheels between the rear and the center of gravity and attachable
9 to a vehicle; said trailer having a powered boom for moving or cutting
10 trees comprising:

11 (1) a bed having a front end and a rear end and a left side and a right
12 side and wherein the front end comprises a first attachment means for
13 attaching to the vehicle and a second attachment means for attaching the
14 powered boom;

15 (2) a power generator means for generating hydraulic power
16 connected to the powered boom; and

17 (3) a leveling means for mechanically leveling the bed comprised of
18 (A) at least one first piston cylinder operationally attached to the power
19 generator means;

20 (B) a first piston arm having a low end and a high end, said high end
21 movably extending from the at least one first piston cylinder in response to

1 hydraulic power from the power generator means to lift the rear end relative
2 to the front end; and wherein the at least one first piston cylinder is attached
3 between the front end of the trailer and the rear end of the trailer.

4 7. The invention of claim 6 wherein

5 (A) the at least one first piston cylinder is attached to the left side of the
6 bed and wherein the leveling means further comprises;
7 (D) at least one second piston cylinder operationally attached to the
8 power generator means attached to the right side of the bed,

9 (1) a second piston arm having a low end and a high end, said high
10 end movably extending from the at least one second piston cylinder.

11 8. The invention of claim 7 wherein the at least one first piston and at least
12 one second piston are attached on either side of the trailer and between the
13 front of the trailer and the center of gravity of the trailer.

14 9. The invention of claim 8 wherein the at least one first piston and at least
15 one second piston are powered by the hydraulic power source.

16 10. The invention of claim 8 wherein the power generator means comprises
17 a motor, a hydraulic pump connected to the motor, a reservoir connected to
18 the pump and hydraulic fluid in the reservoir mounted on the powered boom
19 and wherein the second attachment means further comprises a hydraulic
20 swivel means for rotationally holding the power generator means and for
21 carrying hydraulic fluid from the hydraulic pump to the at least one hydraulic

1 cylinder.

2 11. The invention of claim 10 wherein the power generator means further
3 comprises a valve means for selectively supplying hydraulic fluid to the boom
4 means, the at least one first piston cylinder or the at least one second piston
5 cylinder.

6 12. The invention of claim 11 wherein the trailer bed further comprises (1) a
7 low arm having a front end and a rear end and a left side and a right side;

8 (2) a rising brace having a high end and a low end and wherein the
9 rising brace low end is attached to the low arm rear end;

10 (3) a high arm having a having a left side, a right side, said high arm
11 also having a front end and a rear end and wherein the high arm front end is
12 attached to the rising brace high end;

13 (4) a high arm extension means for extending the length of the high arm
14 from the brace outward.

15 13. The trailer of claim 6 wherein the power generator means further
16 comprises a cab mounted onto the top of the rear of the trailer.

17 14. The trailer of claim 13 wherein the power means further comprises a
18 hydraulic cylinder and piston having a first end operationally movable away
19 by action of the cylinder from the second end, said first end being mounted
20 onto high arm and said second end being attached to the at least one
21 extension brace.

- 1 15. The trailer of claim 14 wherein the high arm defines a tubular opening
- 2 and wherein the at least one extension brace fits within the tubular opening.
- 3 16. The trailer of claim 15 wherein the tubular opening is defined outside of
- 4 the high arm.
- 5 17. The trailer of claim 16 wherein the at least one extension brace is on the
- 6 high arm left side and further comprising at least one second extension
- 7 brace connected in the same fashion to the high arm right side.
- 8 18. The invention of claim 17 wherein the first piston arm low end
- 9 further comprises a log gripping means for holding the first piston arm low to a
- 10 log.